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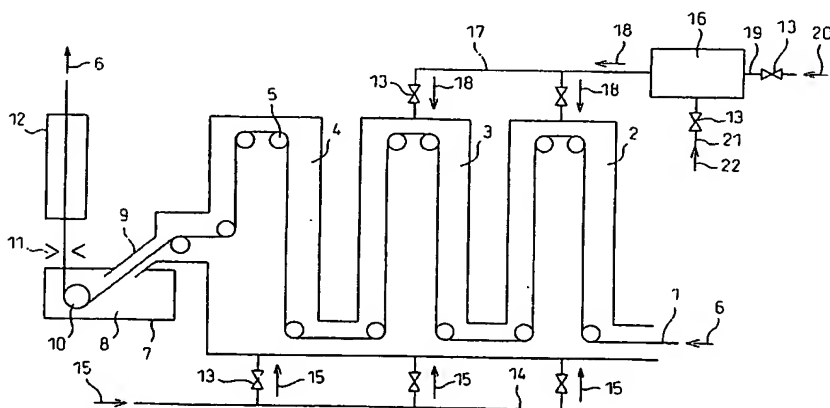
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(54) Title: PROCESS OF PRODUCTION AND PRODUCTION SYSTEM OF HIGH STRENGTH GALVANNEALED STEEL SHEET



(57) Abstract: A process of production for producing a high strength galvanized steel sheet by a hot-dip galvanized steel sheet production equipment using an all-radiant tube type annealing furnace and a production equipment for the same are provided, comprising continuously hot-dip galvanizing a high-strength steel sheet having a content of Si of 0.4 to 2.0 wt.% during which making the atmosphere of the reducing zone an atmosphere containing H<sub>2</sub> to 1 to 60 wt.% and comprised of the balance of N<sub>2</sub>, H<sub>2</sub>O, O, CO<sub>2</sub>, CO, and unavoidable impurities, controlling the log (PCO<sub>2</sub>/PH<sub>2</sub>) of the carbon dioxide partial pressure and hydrogen partial pressure in the atmosphere to log (PCO<sub>2</sub>/PH<sub>2</sub>) ≤ -0.5 and the log (PCO<sub>2</sub>/PH<sub>2</sub>) of the water partial pressure and hydrogen partial pressure to log (PH<sub>2</sub>O/PH<sub>2</sub>) ≤ -0.5, and controlling the log (P<sub>T</sub>/PH<sub>2</sub>) of the total partial pressure P<sub>T</sub> of the carbon dioxide partial pressure PCO<sub>2</sub> and water partial pressure PH<sub>2</sub>O and the hydrogen partial pressure to -3 ≤ log(P<sub>T</sub>/PH<sub>2</sub>) ≤ -0.5.

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